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## A.—NATURAL, AND SOCIAL, CONDITIONS OF THE DISTRICT.

The population at census of 1911 was 21,543, and at the end of 1913 attained 22,485.

A changing constituency of the Council must be my excuse for repeating in this connection the observations made in my reports for 1910 and 1911.

Your Urban District is situate in the centre of a large area of the most industrial portion of South-west Lancashire, bounded on the south and south-west by Haydock Urban District, north-west by Billinge, north by Pemberton, and east by Abram and Golborne.

*Topography.*—The contours range in height from 350 down to 100 feet above Ordnance datum; the highest part of the district being on the north-west boundary.

Average fall is as follows:—

To the north-east .....	1 in 51
„ south-east .....	1 in 91
„ south-west .....	1 in 40

The inclination between the 300 and 200 feet contours is approximately double that of the fall between the 200 and 100 feet contours. There is no defined ridge or main valley line in the district; the Township being divided or split up by four principal streams.

Its greater portion is upon the coal measures, and a part (Central and East Wards) on the new red sandstone. There is practically no change in the above, but subsidences through mining operations become more extensive both as regards areas and depths of sinkings.

*Industries.*—For the major part consists of mining, lock and hinge making, and some weaving. A large proportion of the area is farmed.

*Poor Law Medical Relief and Hospital Accommodation.*—Facilities for obtaining such aid is good and no changes have been made in this connection. Movement is in progress for Sanatorium Isolation in regard to Tuberculosis.

## B.—SANITARY CIRCUMSTANCES OF THE DISTRICT.

*Water Supply.*—Chief bulk is from Liverpool's Rivington Works, supplemented by that of your own from the reservoir at North Ashton. Both are of good quality and on the constant service system. During the long drought towards end of last year your own reservoir was so low that had any lengthened period of stoppage from Liverpool occurred by way of accident to those mains we should have found ourselves in a very grave position.

*Drainage and Sewage.*—You have had as in the past to be constantly giving attention to the sagging and blocking of both. Sundry duplicate sewers have been laid for the prevention of nuisances caused by dislocations of the old ones through mining operations, and special attention has also had to be paid to the cleansing of manholes and the cleansing of blockages arising from same causes.

The New Sewage Works are progressing very favourably and we must anticipate on completion much less trouble in these matters. Towards the end of the year I examined the effluents from the different places of disposal and found them pretty much on a par with the results of the previous year, except that at Low Bank which emitted a foul odour and contained a large percentage of black sediment.

*Closest Accommodation.*—As you know, the pail system is in vogue, the ashpit contents being carted to tipping places; the rough stuff separated, rest riddled and mixed with pail contents for a resultant manure, which is sold to farmers. We have at last got clear of the old insanitary privy midden, and on the water-carriage system there is a steady annual increase in the fresh-water closets (about 10 per annum): the most noted jump being in 1910, when they almost trebled the number for 1909. In Table C you will see that privy middens now are *nil*, pail closets 3,742, fresh-water closets 460, waste-water closets 25. Conversions: privy middens to water closets *nil*, privy middens to pails 20, pail closets to water closets 2.

*Scavenging* is undertaken by the Sanitary Authority. Movable ashbins number 93, and are attended to weekly after the manner of the pails.

*Sanitary Inspections of District.*—Systematic inspection made by Sanitary Inspector and in which I assist. It will be seen from the Inspector's report that combined and regular attention has been paid to this branch of sanitary work.

# SUMMARY OF NUISANCES DEALT WITH DURING THE YEAR 1913.

Stopped drains, gullies, etc....	...	...	...	...	...	...	...	...	120
Dirty houses ...	...	...	...	...	...	...	...	...	97
Insufficient closet accommodation	...	...	...	...	...	...	...	...	86
Unpaved yards	...	...	...	...	...	...	...	...	66
Broken plaster and walls	...	...	...	...	...	...	...	...	63
Defective roofs and spouts	...	...	...	...	...	...	...	...	44
„ pail places, closets and ashpits...	...	...	...	...	...	...	...	...	40
„ waste pipes	...	...	...	...	...	...	...	...	17
„ slopstones	...	...	...	...	...	...	...	...	8
„ fireplaces	...	...	...	...	...	...	...	...	15
„ windows and doors	...	...	...	...	...	...	...	...	35
„ floors	...	...	...	...	...	...	...	...	14
Houses without slopstones	...	...	...	...	...	...	...	...	35
Overcrowding	...	...	...	...	...	...	...	...	21
Dilapidated houses	...	...	...	...	...	...	...	...	7
Privy middens converted to pails	...	...	...	...	...	...	...	...	20
Pails converted to water closets	...	...	...	...	...	...	...	...	1
Damp houses	...	...	...	...	...	...	...	...	5
Cowsheds dirty, defective paving, etc.	...	...	...	...	...	...	...	...	14
Workshops dirty	...	...	...	...	...	...	...	...	7
Miscellaneous	...	...	...	...	...	...	...	...	18
Houses fumigated	...	...	...	...	...	...	...	...	105
Articles fumigated	...	...	...	...	...	...	...	...	628
TOTAL									1466

The whole of the privy middens have been converted to the pail system.

The cowsheds and dairies have been inspected and with few exceptions found clean. The cowsheds number 45, which are good buildings, well lighted and ventilated. Eight required limewashing and cleansing, two with stopped drains and four with defective paving. The whole of the drains have been removed from inside of the cowsheds and deliver into trapped gullies on the outside of the cowsheds.

There are two dairies and one milkshop which were clean ; also the cans and utensils connected therewith.

The slaughter-houses have been regularly inspected and found clean. There are only three which are in regular use at the present time.

DAVID GAMBLE,  
*Inspector of Nuisances.*

*Premises and Occupations which can be controlled by Bye-laws and Regulations.*—We have one cellar workshop (clogging and boot repairing) but its condition is satisfactory. There are no underground bakehouses, neither are there any underground sleeping rooms, or offensive processes of trade ; but we have houses let in lodgings, and it is not uncommon to find lodgers in houses—some being married sons or daughters of tenant, and in others unrelated lodgers are taken in. We have no common lodging houses.

*Schools.*—I believe the sanitary condition of the schools to be good—their equipment good, and under medical inspection through Preston. In connection with Measles one of the Medical Officers interviewed me as to closure, early in the year ; and with regard to illnesses amongst children some odd cases have been referred to me for advice, and I take it others have been referred to their own medical attendant. After closure for infective illness stoving and general cleaning is resorted to prior to re-occupation.

While Measles was rampant during the first five months of the year nine of the twelve schools in your district were under closure (all of the infant department), some for 14 days, and others for a period of three weeks. The schools affected were :—

Emmanuel School, end of January.  
 St. Luke's, from February 5th (three weeks).  
 St. Peter's, from February 5th (three weeks).  
 Park Lane R.C., from February 27th (three weeks).  
 St. Oswald's R.C., from March 10th to 31st (three weeks).  
 Moor Lane R.C., from April 1st (three weeks).  
 Downall Green R.C.,  
 St. Andrew's, from May 2nd (two weeks).  
 Rectory (Downall Green), from May 6th (two weeks).

## FOOD.

*Milk Supply* is for the greater part retailed by farmers, and a portion imported by dealers to retail. A minimum number of families use tinned or condensed form. 'The farmers' milk may be accepted as wholesome and from good stock, and there has been no occasion to suspect any connection between any source of supply and that of infective sickness.

*The Dairies, Cowsheds and Milkshops*, which are under regulations (enforced) under the Order of the Local Government Board, are periodically inspected and conditions found good. For cows "kept up" 800 cubic feet of air space is required. We have 45 cowkeepers, and in addition three other purveyors of milk. No action has been taken as to Tuberculous milk.

*The Condition of Bakehouses* is on the whole good and are inspected annually, mostly by myself. Small repairs, as patches of plastering and limewashing are occasionally found wanting, but get attention after being pointed out.

*The Slaughter-houses* are bi-annually inspected (March and September) and found to be kept clean and generally in good order. Promiscuous visits are paid by myself and the Sanitary Inspector on market nights where meat, various kinds of foodstuffs, fruit, vegetables, etc., are exposed for sale, but there has been no occasion to take any steps appertaining to this question.

*Sale of Food and Drugs Act.*—There has been nothing done by your Authority under these Acts, nor under Milk and Cream Regulations (1912). The County Authority undertakes any actions required.

## HOUSING AND TOWN PLANNING INSPECTIONS.

Of the 654 houses inspected :—

20 were 2 roomed with a population of 3·25 per house,

8	„	3	„	„	3·25	„
356	„	4	„	„	4·92	„
256	„	5	„	„	5·87	„
10	„	6	„	„	6·8	„
4	„	7	„	„	8·5	„

and the following defects were found at time of visit :—

Broken walls and plaster	...	...	78
Houses required cleansing	...	...	93
Insufficient closet accommodation	...	...	60
Without slopstones	...	...	35
Overcrowding	...	...	12
Back-to-back houses	...	...	21
Pail doors off	...	...	12
Miscellaneous	...	...	8
Unpaved yards	...	...	50
Damp walls	...	...	24
Defective waste pipe	...	...	9
„ slopstones	...	...	7
„ fireplaces	...	...	18
„ roofs and spouts	...	...	42
„ floors	...	...	16
„ doors	...	...	11
„ windows	...	...	42
„ paving around gullies...	...	...	30

*Particulars of Action taken by the Council under the Housing and Town Planning Act, 1909 (Article V.) bearing on the Public Health.*

Action taken in 1913 :—

Number of dwellings houses inspected under Section

17 of the Act of 1909 ... .. 654

Number of dwelling houses considered unfit for  
habitation ... .. 69

Number of representations to Authority with a view

to making Closing Orders ... .. 19

Number of Closing Orders made ... .. 19

Number of dwelling-houses in which defects were remedied without making Closing Orders... ..	47
Number of dwelling-houses put into a fit state of . habitation after making Closing Orders ... ..	12
Number of dwelling-houses demolished ... ..	1

General character of defects found to exist :—Dilapidated walls and plaster.

There is shortage of housing accommodation generally throughout the district.

Although there are as a rule fifty or more applications for a newly erected house, this does not afford any actual gauge to what number is required to meet the deficiency—explained by a large percentage of tenants who wish to exchange for newness and cleanliness of the new building. The rent saving idea steps in also (*see page 5, "Lodgings."*)

In the decade 1901 to census (April) 1911, it would appear 821 houses were erected on an average of 82 per annum. In 1912, 122, and last year about 39.

There has been a great stagnation in building due to the risks of sinking and consequent damage to property (with no means of redress) ; and other influences as to ground rent and increased rates from extensive sanitary improvements, sewage works, etc. Again, the increased cost of building material, which in some items are up 33 per cent. and others up to 50 per cent. higher than what obtained up to a recent date. These are some of the chief items facing capitalists who might otherwise feel disposed to invest in building houses up to modern date requirements.

Growth of dwellings in relation to growth of population :—

In 1909 the net increase by births was	371	;	houses built	80
„ 1910	„	„	416	„ 80
„ 1911	„	„	277	„ 80
„ 1912	„	„	422	„ 122
„ 1913	„	„	325	„ 39

*Overcrowding* is not uncommonly met with—21 cases according to the Sanitary Inspector's report, and are dealt with in the ordinary way ; but I am inclined to the opinion that it results only in change of place.

The question of house deficiency is engaging the attention of Committee. It is a matter of serious import, since in a very great measure conditions might at no long date be much reversed as the collieries in this district get worked out.

With regard to the condition of houses, I am of opinion from general observation, the interiors are much cleaner and better attended to on the whole than formerly, which may be in measure partly through the instrumentality of the Lady Inspector, who as will be seen from her report, engages a fair share of her time while visiting.

Another factor in this connection lies in the increased and continued attention to streets—side and back streets—by way of paving, kerbing, channelling and flagging, which last year embraced Haydock Street (Heath Road), Reservoir Street, Orchard Street, Lily Street (along Bolton Road), First, Second, Third and Fourth Streets (with their back streets), and Beech Tree Street at Bryn Gates, and on the opposite side of the road a side street and length of back street along some 28 houses. Their condition now should prove beneficial from a health point of view.

The side streets off Wigan Road and Rose Hill, Edelston, Skelton, and Souther's Street, present a wonderful change too by the same improvement.

House cleanliness and encouragement for such upkeep is largely enhanced to the housewife when the treading in of sludge and wet mud, often immediately after the week-end tidying up, is minimised ; and further, the draining away of stagnant water from near the doors must likewise add to the comfort and well being of the people.

## SANITARY INSPECTION.

Houses inspected and reported upon in detail by Medical Officer of Health (in order) throughout the year :—

Flora Street (13 houses condemned).—One demolished. Enquiry held on appeal by owners ; rest done up.  
 Lodge Lane, " C " Court.—Plans submitted and approved.  
 Church Street, Downall Green.—One house (5, Booth's Brow Road) closed ; others in hand.  
 " A " Court, Liverpool Road.—In hand.  
 Old House, Coroner's Nook.—Closed.  
 Leyland Green (2 houses).—Closed.  
 Doe Riding (damp wall).—Made habitable.  
 Haydock Street (2 houses).—To be visited by Committee.  
 Billinge Road (22 houses).—Work in progress.  
 Garswood Road (23 houses).—Work in progress.  
 Coroner's Nook (6 houses).—Made habitable.  
 Grammar School (caretaker's house).—Made habitable.  
 Whitledge Green (8 houses).—Single houses with no back doors ;  
     No action taken.  
 Downall Green Road (2 houses).—Single houses with no back doors ;  
     No action taken.  
 Blue Bell Row (3 houses).—Single houses with no back doors ; no  
     action taken.  
 Dig Nook (9 houses).—Single houses with no back doors ; no action  
     taken.  
 Pennington Square (4 houses).—Single houses with no back doors ;  
     No action taken.  
 East Street (12 houses).—Two closed ; no action taken with others.  
 350 and 352, Back Bolton Road.—No action taken.  
 Haydock Street (again).—To be visited by Committee.

## FACTORIES, WORKSHOPS AND WORKPLACES.

### INSPECTIONS.

	<i>Inspections. Written Notices. Prosecutions.</i>		
Factories .....	25	1	Nil.
Workshops .....	90	Nil.	Nil.
Workplaces .....	22	Nil.	Nil.
Total .....	137	1	Nil.

DEFECTS FOUND.

	<i>Found.</i>	<i>Remedied.</i>
Want of Cleanliness .....	7	7
Other nuisances .....	3	3
Sanitary accommodation not reported .....	1	1
Total .....	11	11

REGISTERED WORKSHOPS.

Dressmakers, milliners, tailors, etc. ... ..	35
Lock and hinge manufacturers ... ..	21
Bakers and confectioners ..... ..	25
Joiners, builders, painters and plumbers ... ..	14
Boot, shoe and clog manufacturers ... ..	16
Stocking knitters ... ..	6
Mineral water manufacturers ... ..	3
Shoeing smiths ... ..	3
Motor and cycle repairers ... ..	3
Laundries ... ..	2
Miscellaneous ... ..	9
Total number of workshops on register.....	137

OTHER MATTERS.

*Matters notified to H.M. Inspector of Factories :—*

Failure to affix Abstract of the Factory and Workshop Act..	4
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, yet not under the Factory and Workshop Act :—	
Notified by H.M. Inspector.....	1
Reports (of action taken) sent to H.M. Inspector.....	1
Total .....	6

*Note.*—Inspection under these Acts is undertaken partly by myself, partly by the Sanitary Inspector, and the Lady Inspector taking those where females only are employed ; and the division runs us to about 40 each.

### C.—SANITARY ADMINISTRATION OF THE DISTRICT.

(1) *Staff*.—One Chief Inspector; and the Groundsman at Hospital does the house stoving under his directions. The Lady Visitor reports monthly on her work and follows up carefully any enquiries I suggest as to illness in children.

With so many things, almost annual additions to the duties of the Sanitary Inspector, I feel certain he must at times be sadly strained to get through his work. I think this a matter worth the consideration of the Council.

(2) *Hospital Accommodation* is ample for infectious diseases, and it is a rarity at any time to see it absolutely empty. The administration is good, under a Matron (Miss Westrap), Sister Winstanley and probationers. Extra nurses are provided as occasion requires.

I take this opportunity for thanking the two former for their untiring efforts in every way.

(3) *Administration of Local Acts adopted*:—

Infectious Diseases (Prevention) Act, 1890.

Public Health Acts Amendment Act, 1890

Ditto. 1907

Notification of Births Act, 1907

Gas and Water.

Housing of the Working Classes Act, 1890-1909.

(4) *Chemical and Bacteriological Work* during the year:—  
The Council has an arrangement with the Royal Institute for Public Health in London for these, and in the past year seven specimens were sent up—six for Tubercle bacilli, and one blood test for Enteric.

### D.—CONTROL OVER INFECTIOUS DISEASES.

Every enquiry is made by the Sanitary Inspector as to source and method of spread, and although we have no definite evidence of direct schools infection there can be little doubt but that it does occur. There has been no suspicion regarding water or milk supply, or consumption of shellfish, nor any special analyses made. Anti-Diphtheritic serum is supplied free in the first instances for prevention and treatment of Diphtheria, which has led since its inauguration in October, 1910, to the free use of 83 vials of 2,000 units each.

## E.—PREVALENCE OF AND CONTROL OVER TUBERCULOSIS.

So far as this district is concerned there is a proposal for a Joint Committee for providing Sanatorium buildings and buildings for Smallpox at Orrell. It is not proposed to treat Smallpox cases at Orrell except in cases of epidemic, which would mean the removal of tubercular patients from such institution.

Preliminary arrangements have been made for the treatment of sporadic cases of Smallpox elsewhere.

The County Council and Wigan Corporation jointly have already appointed a Tuberculosis Medical Officer and provided a Dispensary at Wigan for dealing with Tubercular cases, including this area, and which is being taken advantage of. Further, the Tuberculosis Medical Officer, through the District Insurance Committee, purpöses giving free lectures on the subject generally.

The Sanitary Inspector after notification visits and leaves instructional cards, and sputa cups supplied free by the Sanitary Authority, and makes subsequent visits to follow up as to change of residence, etc. Stoving is resorted to as required by changes or by a death.

## F.—INVESTIGATION OF OTHER DISEASES.

From supplementary Table III. the incidence of mortality as to diseases not notifiable, it will be seen that East Ward presents very striking evidence of the mortality in that locality. Next to Central Ward it is the largest and most densely populated with people mostly of the poorer class, co-existent with which we find the greatest deficiencies in regard to all the measures pertaining to achieve good health, so that an easy comparison can be made of the mortality in East Ward with that of Central with 25 per cent. more of a population :—

	<i>Central.</i>	<i>North.</i>	<i>South.</i>	<i>East.</i>	<i>West.</i>
Deaths .....	114	57	13	109	72
contribution to which, were as follows, from					
Measles .....	13	6	—	20	10
Diarrhœa .....	11	5	—	13	6
Pneumonia .....	12	7	1	16	10
Prem. birth and inf. wast. ....	6	7	—	12	8

There has been no excessive prevalence of diseases referred to under this heading, such as Rickets, Acute Rheumatism, food poisoning, or specific disease.

#### SICKNESS DURING THE YEAR.

*Smallpox.*—Another year of absolute freedom is recorded. It is sad however to reflect that we have so much material for it to thrive upon if it once gets into the Township ; although we have the means for isolating first cases.

The number of successful cases of vaccination during the last three years, were :—

1911.....	382	out of	607	births or	62	per cent.
1912.....	301	„	700	„	43	„
1913.....	275	„	690	„	40	„

Of course there is a small percentage to be deducted from the balance of above figures for removals and deaths.

The dates of visitations were : 1874, 1881, 1893 and 1903 ; intervals of 8, 12, 10 and 8 years.

*Enteric Fever.*—In all we had 24 cases notified, of which 18 were treated in Hospital, with two deaths or 8 per cent. In two or three instances patients without typical symptoms, but running a temperature, were sent in more for observation and preventive purposes. One of the fatal cases was in a person whose constitution

was much undermined and a bad subject for withstanding any serious illness. 75 per cent. of the cases notified were removed to Hospital. Four houses were concerned as to 10 cases, viz. :—Three at 53, North Street, and three at 33, North Street ; two others at Carter's Fold Farm, on the extreme south boundary approaching Billinge.

In Table II. will be found details as to age and ward incidence, and the following table will show incidence as to time and locality :—

	<i>Central.</i>	<i>North.</i>	<i>South.</i>	<i>East.</i>	<i>West.</i>	<i>Total.</i>
January .....	—	—	—	2	—	2
February .....	—	—	—	1	1	2
March.....	—	1	—	1	—	2
April.....	—	—	—	1	—	1
May .....	1	1	—	1	—	3
June .....	2	—	—	—	—	2
July .....	1	—	—	1	1	3
August .....	1	—	—	—	1	2
September ....	1	—	—	—	2	3
October .....	1	1	2	—	—	4
November ....	—	—	—	—	—	—
December .....	—	—	—	—	—	—
Total ....	7	3	2	7	5	24

*Scarlet Fever.*—We had again a decrease in recognised cases, but I am fully convinced we have non-recognised cases which play an important part in the continued prevalence of such illness. In August a case notified was of a patient who had returned from Somerset in the peeling stage. Last year I noted that for 21 years we had had one month entirely free from notification of this special sickness (July). For a second time February last, we were similarly free. Of the 32 cases, practically 50 per cent. were isolated. The mortality was absolutely nil.

Table as to time and locality distribution :—

	<i>Central.</i>	<i>North.</i>	<i>South.</i>	<i>East.</i>	<i>West.</i>	<i>Total.</i>
January .....	—	—	—	2	2	4
February .....	—	—	—2	—	—	—
March.....	1	—	—	—	—	1
April.....	1	—	—	—	—	1
May .....	—	—	—	1	2	3
June .....	—	—	—	1	—	1
July .....	—	1	—	—	—	1
August .....	—	1	—	1	—	2
September ....	1	—	—	1	2	4
October .....	1	2	1	—	1	5
November ....	1	—	—	—	2	4
December .....	1	—	—	4	1	6
Total ....	6	4	1	11	10	32

*Diphtheria.*—Of notification we had one less than in previous year—24, of which 14 or 56 per cent. were isolated. The two fatalities occurred in Hospital. As before stated, cases in extremis are sent in quite hopeless. Age incidence is on Table II., and the following gives time and ward distribution (North and South Wards having a clean sheet) :—

	<i>Central.</i>	<i>North.</i>	<i>South.</i>	<i>East.</i>	<i>West.</i>	<i>Total.</i>
January .....	1	—	—	2	—	3
February .....	1	—	—	—	—	1
March.....	—	—	—	—	1	1
April.....	2	—	—	—	2	4
May .....	1	—	—	1	—	2
June .....	—	—	—	—	—	—
July .....	1	—	—	—	—	1
August .....	1	—	—	1	—	2
September ....	1	—	—	—	—	1
October .....	—	—	—	—	—	—
November ....	1	—	—	—	—	1
December .....	3	—	—	2	3	8
Total ....	12	—	—	6	6	24

*Measles* was very prevalent during the first five months of the year, and upon which I made a special report. The infant department of eight Schools were closed and the whole of one, it being an open mixed school. The disease was very markedly conspicuous throughout the county. It is not notifiable, but the mortality indicates of itself the large amount in proportion thereto, of sickness. It is and always has been too lightly regarded as a dangerous and fatal form of illness in children under five years of age. On reflection, it is a pity no anti-protective serum is as yet known.

*Diarrhœa* is also non-notifiable, and its liability is traceable to so many domiciliary causes that we find it usually most in evidence in the third quarter. All the deaths were in children under two years of age (31 under one and 4 under two years).

As will be seen from the Health Visitor's report leaflets in relation to Measles, Scarlet and Diarrhœa are distributed, and she on her visits emphasizes all details pertaining to them to the parents.

*Respiratory Diseases*.—From Bronchitis and Pneumonia we had 60 deaths as against 70 the year before, but the proportion of infants out of the totals show an increase of 12. This might be attributable to their having had Measles but untreated and thus prone to this sequelæ. With the improved conditions of many back and side streets we may hope for a still further diminution of this form of sickness.

*Pertussis* caused one death, but the disease was not very conspicuously prevalent.

*Pulmonary Phthisis* contributed 15 against 18 deaths in 1912, with a rate of 0·67, which is about the mean for the past 12 years.

*Erysipelas* was notified eight times as against 13 in 1912; one half being of traumatic type—no fatality again. In my last Annual Report, I stated that: "that the 13 represented half the average number of previous years, and that they were chiefly of the traumatic type."

Insanitary surroundings, where wounds are the primary starting point, influence the inception of Erysipelas, and with continued attention to clearing up and removing these conditions everywhere, it may be expected that notification from this cause will yearly decrease.

*Puerperal Fever* occasioned four notifications, with one fatality as against seven and one fatality in 1912. Special attention to these after intimation to Preston (along with cases of Ophthalmia Neon.) are looked into by special visits and enquiry in relation to the midwives concerned, of whom we have a total of 11 on the register.

## G.—PREVENTION OF MORTALITY IN CHILD BIRTH AND INFANCY.

The administration of the Midwives' Act, 1902, is under the County Authority at Preston, and cases of Ophthalmia Neon. reported are forwarded to Preston, and dealt with from there through their inspectors.

## HEALTH VISITOR'S REPORT.

PUBLIC HEALTH DEPARTMENT,  
ASHTON-IN-MAKERFIELD, February 9th, 1914.

*To the Medical Officer of Health.*

Sir,

I have to report that during the year 1913 I paid, under the Notification of Births Act, 2,254 visits; of these 697 were first visits and 1,557 were re-visits.

On visiting, advice in matters of health and sanitation is offered to the mothers in their homes; the babies watched and their feeding directed. In some instances a beginning has been made with the mother and her surroundings before the arrival of the infant.

Leaflets, with instructions as to the care of the baby, are left with the mothers; these, though read, are not always believed, as evidenced by the frequent use of the "dummy teat," the giving of "soothing syrups," and a preference for the "long-tube bottle."

Some of the lesser ailments of the bottle-fed babies, and those receiving some food in addition to the breast milk, is often due to the fact that mothers act on the suggestions of neighbours, and so commit endless faults.

Many parents seem to believe in giving medicine to their children, finding this treatment easier than the regulating of diet, clothing, exercise, temperature of rooms, etc.

Want of cleanliness still occupies a large part of the time, thought and energy. Baths are not always a favourite method for the maintenance of health.

Investigations have been made into the deaths of all children who have died during the first year of life; of the 119 deaths, 31 children died soon after birth—17 of these died before the first visit was paid.

One hundred and ninety one miscellaneous visits were made; these consisted of:—Special visits made at the request of the Medical Officer of Health; extra visits paid to homes where Summer Diarrhoea was prevalent (special attention being paid to food, clothing, and cleanliness of rooms, back yards, etc.); additional visits to cases of Ophthalmia; and visits to addresses handed over by the School Attendance Officer to verminous school children.

A varying number of babies were systematically weighed; those receiving a *mixed diet* being weighed more frequently.

Some existing nuisances were reported to the Inspector of Nuisances, including overcrowding, dampness of walls, dilapidated floors, defective settings round gullies, etc.

In addition to “*talks*” with the mothers as to bathing, hours of sleep for their children and suitable clothing, errors of diet, want of cleanliness of the person, beds and bedding, etc., the question of infection by flies and mouth to mouth kissing of the babies has been included.

Leaflets dealing with Summer Diarrhoea, Scarlet Fever and Measles were freely distributed.

## SUMMARY OF VISITS, ETC., PAID, 1913.

Notification of Births Act ... ..	2254
Infant Mortality Investigations ... ..	119
Inspection of Workshops ... ..	41
Miscellaneous Visits ... ..	191
Interviews ... ..	35

I am,

Yours obediently,

MARY E. HAWORTH,

*Health Visitor.*

## H.—VITAL STATISTICS OF THE DISTRICT.

In calculating the several rates, I have based them on the population estimated as accurately as possible to 1st July (the middle of the year). With regard to the death-rate, this is calculated in the usual way and is multiplied by the factor 1.0937 supplied by the Local Government Board last year, and the result gives a standard death-rate corrected according to the ratio which the local age and sex distribution bears to that of the whole country. I may say that this instructional correcting of the death-rate was only sent to me last year in May after my Annual Report was out, and the death-rate as there given (12.6) must now be taken for 1912 as equal to 13.7.

The deaths actually registered in the Township were 344. Six "outward" transfers and 27 "inward," leave us a gross total of 365, and the *General Death-rate* calculated upon a population of 22,295 show it to be 16.37, which multiplied by the 1.0937 makes it 17.90, or 4.2 over the previous year and 1.3 over that for 1911.

The *Zymotic-rate* works out without Diarrhœa to 2.46 as against 0.59 and 1.30 for the previous two years respectively, and due to Measles epidemic; including Diarrhœal and Enteritic mortality, under two years of age classified as Zymotic causes the rate is 4.03 as against 1.04 and 2.84 for the two previous years respectively. The causes of this rise therefore is self-evident.

*Birth-rate* (30.9) is decimal 0.1 less than last year, viz., 31 and 2.9 over that for 1911.

*Infantile Death-rate* is as you will anticipate in the ascendant through, of course, the same causes as the General-rate (Measles and Diarrhœa), and is 175 as against 104 last year, when we had a reduction of 54 against a mean of 158 for the decade 1901-1910.

The number of illegitimate births were as follows :—Central Ward 4, North Ward 2, South Ward 0, East Ward 7, West Ward 1—plus four inward transfers (ward not known)—making a total of 18, a figure exactly representing the average for the previous three years.

Infantile deaths of illegimates were :—1 in Central Ward, 5 in East Ward, 2 in West Ward ; total 8.

*Old Age.*—Twenty-seven males and 18 females died over 65 years of age, showing a combined average longevity of  $74\frac{1}{2}$  years.

*Deaths from Violence.*—Inquests numbered 17, namely :; Burns 1, motor over-running 2, falls 3, drowning 1, mining accidents 7, natural causes 1 ; total 15—and there were 2 suicides. The natural causes case arose out of the N.S.P.C.C. taking the matter up of a child's alleged starvation.

Births during the year :—

Males 323 females 367 total 690

Deaths during the year :—

Males 191 females 174 total 365

Net increase :—

Males 132 females 193 total 325

Bringing the population to 1st January, 1914, to 22,485.

Mortality at subjoined ages :—

Under one year	121		
1 year and under	2	44	
2	5	26	Total under 5 years 191
5	15	17	
15	25	16	
25	45	35	
45	65	61	
65 and upwards	45	Total over 5 years 174	
	<hr/>		
	365		365
	<hr/>		<hr/>

*Conclusion.*—I have attended all your monthly meetings and some special ones ; reporting accordingly.

A large amount of work has been done during the year and to the benefit of the district. Let us continue to better all conditions direct and indirect under which we have to live. These consist in carrying out all Sanitary Acts as effectually as possible without hardship to the working classes.

From observations these last few years, I feel satisfied that instructions to scholars might be given through the medium of the school teachers, as to habits of life and cleanliness—though we ought to expect through the additional medical inspection of schools to see some marked improvement in this connection.

Chief sanitary requirements of the district for the future :—

Completion of the new sewage scheme.

Continued attention to paving, flagging, streetages, etc.

Interior house cleansing and repairing.

Consideration as to purchase of a destructor.

I beg to thank my Council and all the Officials for their kindness to me year by year.

And remain,

Your obedient Servant,

NATHAN HANNAH,  
*Medical Officer of Health,  
 District Medical Officer & Pub-Vacc.,  
 Cert. Fact. Surgeon, etc.*

TABLE I.

## VITAL STATISTICS OF WHOLE DISTRICT DURING 1913 AND PREVIOUS YEARS.

## District of ASHTON-IN-MAKERFIELD.

Year	Population estimated to middle of each year	BIRTHS		TOTAL DEATHS REGISTERED IN THE DISTRICT		TRANSFERABLE DEATHS		NETT DEATHS BELONGING TO THE DISTRICT				
		Un-corrected Number	Nett Number	Rate	Number	Rate	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age		At all Ages	
									Number	Rate per 1,000 Net Births	Number	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1908...	21601	727	...	33.5	307	14.2	...	21	104	143	328	15.1
1909...	21960	710	...	32.3	323	14.7	...	16	94	131	339	15.4
1910...	22394	706	...	31.5	275	12.2	...	15	96	136	290	12.9
1911...	21636	605	607	28.0	302	13.4	2	25	90	148	325	15.0
1912...	21943	700	...	31.9	260	11.8	4	22	73	104	278	12.6
1913...	22295	686	690	30.9	344	15.42	6	27	121	175	365	17.90

Area of District in acres (land and inland water) ..... 6,125

At Census, 1911—Total population at all ages ..... 21,543

Number of inhabited houses..... 4,088

Average number of persons per house..... 5.27

TABLE II.

## CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1913.

## District of ASHTON-IN-MAKERFIELD.

Notifiable Diseases	At all Ages	Number of Cases Notified at Ages—Years						Total Cases Notified in each Locality					Total Cases Removed to Hospital	
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and Upwards	Central Ward	North Ward	South Ward	East Ward		West Ward
Diphtheria including Membranous Croup)	24	1	7	9	4	2	1	—	12	—	—	5	7	14
Erysipelas.....	8	—	—	—	—	2	5	1	2	1	—	3	2	—
Scarlet Fever .....	32	1	10	18	3	—	—	—	6	4	1	11	10	15
Enteric Fever .....	24	—	3	10	6	4	1	—	8	2	2	7	5	18
Puerperal Fever ...	4	—	—	—	—	4	—	—	1	1	1	1	—	—
Poliomyelitis .....	1	—	1	—	—	—	—	—	—	—	—	—	1	—
Pul. Tuberculosis .	25	—	—	3	10	9	3	—	5	2	1	9	8	—
Other forms of Tuberculosis ...	37	5	10	7	7	6	2	—	11	2	4	13	7	—
Ophthal. Neon. ...	4	4	—	—	—	—	—	—	2	—	—	1	1	—
Totals .....	159	11	31	47	30	27	12	1	47	12	9	50	41	47

Isolation Hospital or Hospitals—Bryn Road, and Smallpox at Edge Green.

No Sanatorium.

TABLE III.

## CAUSES OF, AND AGES AT DEATH, DURING THE YEAR 1913.

## District of ASHTON-IN-MAKERFIELD.

Causes of Death.	Nett Deaths at the subjoined Ages of "Residents " whether occurring within or without the District (a)										Total Deaths of "Residents" or "non-Residents" in Institutions in the District (b)
	All Ages	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards		
All Causes—Certified .....	351	113	44	25	15	16	34	59	45	—	
Uncertified .....	14	8	—	1	2	—	1	2	—	—	
Enteric Fever .....	3	—	—	—	—	1	1	1	—	2	
Measles .....	49	6	23	17	2	1	—	—	—	—	
Whooping Cough .....	1	—	1	—	—	—	—	—	—	—	
Diphtheria and Croup .....	2	—	2	—	—	—	—	—	—	2	
Influenza .....	1	—	—	—	—	—	—	1	—	—	
Phthisis (Pulmonary Tuberculosis) .....	15	—	—	—	1	5	6	3	—	—	
Tuberculous Meningitis .....	3	1	2	—	—	—	—	—	—	—	
Other Tuberculous Diseases .....	9	1	3	—	2	—	2	1	—	—	
Cancer, malignant Disease .....	13	—	—	—	—	—	4	6	3	—	
Rheumatic Fever .....	1	—	—	—	—	1	—	—	—	—	
Meningitis.....	4	3	—	—	1	—	—	—	—	—	
Organic Heart Disease .....	17	—	—	—	—	1	3	8	5	—	
Bronchitis.....	14	1	2	—	—	—	—	6	5	—	
Pneumonia (all forms) .....	46	26	5	3	2	—	4	3	3	—	

TABLE III.—Continued.

# **CAUSES OF, AND AGES AT DEATH, DURING THE YEAR 1913.** **District of ASHTON-IN-MAKERFIELD.**

Causes of Death.	Nett Deaths at the subjoined Ages of "Residents " whether occurring within or without the District (a)										Total Deaths whether of 'Residents' or 'Non-Residents' in Institutions in the District (b)
	All Ages	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards		
Other Diseases of Respiratory Organs .....	2	—	1	—	—	—	—	—	—	—	
Diarrhoea and Enteritis .....	35	31	4	—	—	—	—	—	—	—	
Appendicitis and Typhilitis .....	1	—	—	—	1	—	—	—	—	—	
Cirrhosis of Liver .....	2	—	—	—	—	—	—	1	1	—	
Alcoholism .....	1	—	—	—	—	—	—	1	—	—	
Nephritis and Bright's Disease .....	3	—	—	—	—	1	—	1	1	—	
Puerperal Fever .....	1	—	—	—	—	—	1	—	—	—	
Other Accidents and Diseases of Pregnancy and Parturition .....	4	2	—	—	—	—	1	1	—	—	
Congenital Debility and Malformation, including Premature Birth .....	33	32	1	—	—	—	—	—	—	—	
Violent Deaths, excluding suicide.....	2	—	—	—	—	—	1	1	—	—	
Other Defined Diseases .....	75	9	—	4	4	3	9	21	25	—	
Diseases ill-defined and unknown .....	14	8	—	1	2	—	1	2	—	—	
Totals .....	365	121	44	26	17	16	35	61	45	4	

SUPPLEMENTARY TABLE III.

CAUSES OF, AND AGES AT DEATH, AND WARD INCIDENCE DURING THE YEAR 1913.

Cause of Death	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District (a)										Total Deaths whether of "Residents" in Institutions in District (b)	Deaths in or belonging to Localities (at all Ages)					Total Deaths in Public Institutions in the District
	Under 1 year	1 and under 2 years	2 and under 3 years	3 and under 4 years	4 and under 5 years	5 and under 6 years	6 and under 7 years	7 and under 8 years	8 and under 9 years	9 and under 10 years		C	N	S	E	W	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
All Causes—Certified .....	351	113	44	25	15	16	34	59	45	—	104	63	13	105	66	351	—
Uncertified ....	14	8	—	1	2	—	1	2	—	—	6	1	3	4	—	14	—
Enteric Fever .....	3	—	—	—	1	1	1	—	—	2	—	2	—	—	1	3	2
Measles .....	49	6	23	17	2	1	—	—	—	—	13	6	—	20	10	49	—
Whooping Cough .....	1	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—
Diphtheria and Croup .....	2	—	2	—	—	—	—	—	—	2	1	1	—	—	—	2	—
Influenza .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phthisis ( Pul. Tuberculosis) ..	15	—	—	—	1	5	6	3	—	—	6	1	1	6	1	15	—
Tuberculous Meningitis .....	3	1	2	—	2	—	2	1	—	—	1	—	—	1	1	3	—
Other Tuberculous Diseases ..	9	1	3	—	2	—	4	6	3	—	3	—	—	4	2	9	—
Cancer, malignant disease ...	13	—	—	—	—	—	4	6	3	—	5	2	2	2	1	13	—
Rheumatic Fever .....	1	—	—	—	—	1	—	—	—	—	—	—	—	—	1	1	—
Meningitis.....	4	3	—	—	1	—	3	8	5	—	—	—	1	3	—	4	—
Organic Heart Disease .....	17	—	—	—	—	1	3	—	5	—	5	4	3	4	1	17	—
Bronchitis.....	14	1	2	—	—	—	—	6	5	—	—	4	—	2	8	14	—
Pneumonia (all forms) .....	46	26	5	3	2	—	4	3	3	—	12	7	1	16	10	46	—
Other Diseases of Respiratory Organs .....	2	—	1	—	—	—	—	—	1	—	2	—	—	—	—	2	—

SUPPLEMENTARY TABLE III.—Continued.

CAUSES OF, AND AGES AT DEATH, AND WARD INCIDENCE DURING THE YEAR 1913.

Cause of Death	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District (a)										Total Deaths whether of 'Residents' or 'Non-Residents' in Institutions in the District (b)	Deaths in or belonging to Localities (at all Ages)					Total Deaths in Public Institutions in the District
	All Ages	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards	C		N	S	E	W	T	
Diarrhoea and Enteritis .....	35	31	4	1	1	1	1	1	1	1	11	5	—	13	6	35	1
Appendicitis and Typhlitis...	1	1	—	—	—	—	—	—	—	—	1	1	—	—	—	1	—
Cirrhosis of Liver .....	2	1	—	—	—	—	—	—	—	—	1	1	—	—	—	2	—
Alcoholism .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Nephritis & Bright's Disease	3	1	—	—	—	1	1	1	1	—	—	—	1	1	1	3	—
Puerperal Fever .....	1	—	—	—	—	—	1	—	—	—	1	—	—	—	—	1	—
Other Accidents & Diseases of Pregnancy & Parturition.	4	2	1	—	—	—	1	1	—	—	1	—	—	2	1	4	—
Congenital Debility & Malformation, including Premature Birth .....	4	2	—	—	—	—	1	1	—	—	1	—	—	2	1	4	—
Violent Deaths, excluding Suicide .....	2	—	—	—	—	—	1	1	—	—	—	1	—	1	—	2	—
Other Defined Diseases .....	75	9	—	4	4	3	9	21	25	—	29	20	4	12	10	75	—
Diseases Ill-defined or unknown .....	14	8	—	1	2	—	1	2	—	—	6	1	3	4	—	14	—
Totals .....	365	121	44	26	17	16	35	61	45	4	110	64	16	109	66	365	4

**INFANT MORTALITY DURING THE YEAR 1914.**  
**Deaths from Stated Causes in Weeks and Months under One Year of Age.**  
**District of ASHTON-IN-MAKERFIELD.**

Cause of Death	Under 1 year										Total Deaths under 1 year
	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-3 months	3-6 months	6-9 months	9-12 months		
All Causes—Certified .....	10	6	9	3	28	25	25	23	12	113	
Uncertified .....	3	1	—	1	5	—	2	—	1	8	
Measles .....	—	—	—	—	—	—	1	3	2	6	
Tuberculous Meningitis .....	—	—	—	—	—	—	1	—	—	1	
Abdominal Tuberculosis .....	—	—	—	—	—	—	—	1	—	1	
Meningitis ( <i>not Tuberculous</i> ) .....	—	—	—	—	—	—	—	2	1	3	
Convulsions .....	1	—	—	1	2	—	—	—	—	2	
Bronchitis.....	—	—	—	—	—	1	—	—	—	1	
Pneumonia (all forms) .....	—	1	—	1	2	7	6	4	7	26	
Diarrhoea .....	—	—	—	—	—	2	2	5	1	10	
Enteritis .....	—	—	—	1	1	8	6	6	—	21	
Gastritis .....	—	—	—	—	—	—	1	—	—	1	
Injury at Birth .....	1	—	—	—	1	1	—	—	—	2	
Atelectasis .....	1	—	—	—	1	—	—	—	—	1	
Congenital Malformations .....	2	1	—	—	3	1	—	—	—	4	
Premature Birth .....	4	2	4	—	10	2	—	—	—	12	
Atrophy, Debility and Marasmus .....	1	—	4	—	5	4	5	1	1	16	
Other Causes .....	—	2	1	—	3	1	1	1	—	6	
Totals .....	13	7	9	4	33	25	27	23	13	121	
Nett Births in the year—Legitimate .....	672	Nett Deaths in the year—Legitimate Infants .....									113
Illegitimate .....	18	Illegitimate Infants ....									8

TABLE V.

## SUPPLEMENTARY WARD TABLE.

	Central.	North.	South.	East.	West.	Total.
Approx. population on 1st January, 1913 .....	7,134	2,731	1,850	5,404	5,041	22,160
Births to 1st July, 1913 .....	111	42	32	90	48	323
Deaths to 1st July, 1913.....	52	29	5	60	42	188
Nett Increase.....	59	13	27	30	6	135
Making population 1st July, 1913 .....	7,193	2,744	1,877	5,434	5,047	22,295
Births to December 31st, 1913 .....	142	36	34	79	76	367
Deaths to December 31st, 1913 .....	62	28	8	49	30	177
Nett Increase.....	80	8	26	30	46	190
Making population on 1st January, 1914 .....	7,273	2,752	1,903	5,464	5,093	22,485

# Summary of Medical Officers' Report for 1913.

## Urban District of Ashton-in-Makerfield.

Medical Officer of Health, Nathan Hannah—Salary as Medical Officer of Health £125.

Inspector of Nuisances, David Gamble—Salary as Inspector £135.

What is the character of the Hospital Accommodation ? For Smallpox, 8 beds at Edge Green. For other Infectious Diseases, 36 beds at Bryn Road.

Is it joint or otherwise ? Not joint.

No. of beds available for *your District* ? For Smallpox, 8. For other Infectious Diseases, 36.

No. of cases removed to Hospital from *your District* ? Smallpox, Nil. Enteric Fever, 18. Diphtheria, 14. Scarlet Fever, 15.  
Total, 47.

Deaths in Hospital of patients from *your District* ? From what causes ? Two each Enteric and Diphtheria.

TABLE C.—*Continued.*

How is Disinfection carried out ? Houses, Sulphur and Formalin. No. of houses disinfected ? 105. Apparatus used for clothing, bedding, etc. (steam or otherwise) ? Steam. Where is apparatus situated ? Infectious Disease Hospital.

If Apparatus at a Hospital is available is it used for the disinfection of clothing, bedding, etc., of patients *not* removed to the Hospital ? Yes.

Diseases not specifically mentioned in the Infectious Diseases Notification Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, *Ophthalmia Neonatorum*, etc.) ? If so, what are they ? Ophthalmia Neonatorum, Polio-myelitis, Cerebro-spinal Meningitis.

Diseases specially prevalent ? Measles, Diarrhœa. Period ? First five months and third quarter.

Any schools closed ? Yes. If so, for what disease ? Measles.

No. of Special Reports made under Art. XIX. (15 and 16) Sanitary Officers' Order, 1910 ? One as to Measles.

Bacteriological Examinations. No. and nature of specimens examined ? Six for Tuberculous and one Enteris blood.

Arrangement (if any) made under the Diphtheria Anti-toxin Order, 1910 ? Free supply to G.P.'s for treatment or prevention.

TABLE C.—Continued.

<p>“The Housing of the Working Classes Acts, 1890 to 1909”</p>	<p>Has your Authority determined the procedure to be adopted for the inspection of your district as required by Article 1 of the Regulations? Yes.</p> <p>Has your Authority prepared, as required by Article 1 (3), a list of dwelling-houses, the early inspection of which is desirable? Yes.</p> <p>Has your Authority designated an officer to undertake the special inspection of houses and to keep the records stipulated by Article 2? If so, what officer? Inspector of Nuisances.</p> <p>Have the necessary books, forms, etc., for keeping the required records been obtained? Yes.</p>
<p>Is there a deficiency of housing accommodation? If so, where?</p>	<p>Action taken in 1913:—</p> <p>No. of dwelling-houses inspected under Sec. 17 of the Act of 1909?..... 654</p> <p>No. of dwelling-houses considered unfit for human habitation?..... 69</p> <p>No. of representations to Authority with a view to making Closing Orders? 19</p> <p>No. of Closing Orders made?..... 19</p> <p>No. of dwelling-houses in which defects were remedied without making Closing Orders?..... 47</p> <p>No. of dwelling-houses put into a fit state of habitation after making Closing Orders?..... 12</p> <p>No. of dwelling-houses demolished?..... 1</p> <p>General character of defects found to exist? Dilapidated walls and plaster.</p> <p>Yes. General throughout district.</p>
<p>Source of Water Supply?</p> <p>What is its condition?</p> <p>Possibilities of contamination?</p> <p>Is it subject to your inspection?</p>	<p>Rivington and Council's Reservoir.</p> <p>Good.</p> <p>Small.</p> <p>Yes.</p>
<p>Is Scavenging and Removal of House Refuse carried out satisfactorily?</p> <p>How performed by (Sanitary Authority Contract, or Occupiers of Houses)?</p>	<p>Yes.</p> <p>By Sanitary Authority.</p>

TABLE C.—Continued.

How is the Refuse disposed of ? Has a destructor been provided ?	At tipping places. No.
Sewage Disposal Works. Method of Treatment ? What is the character of the Drainage System ? Drain Testing, Flushing, &c. ?	New Works now in progress. Irregular through blockages and sagging. Done as required.
Action taken with regard to the Pollution of Streams ?	Nil.
Canal Boats: Number Inspected ?	No canals. Number of Infringements of Acts ?
What is the condition of the Bakehouses ?	Very fair.
" Slaughter-houses ?	Very fair. Has a Public Abattoir been provided ? No.
" Lodging-houses ?	Nil. Are they registered ?
What is the Sanitary Condition of the Schools ?	Good.
Dairies, Cowsheds, and Milkshops— Are they periodically inspected ? Have Regulations been made under the Order of the L.C.B. ? Amount of air space in cubic feet required for each cow ? No. of Cowkeepers ? No. of Dairymen or Purveyors of Milk (other than Cowkeepers) ? Action taken (if any) as to Tuberculous Milk ?	Yes. What is their condition ? Good. Yes. Are they enforced ? Yes. 800 cubic feet where cows are kept up. 45. No. on register ? 3. No. on register ? Nil.

TABLE C.—Continued.

Total amount of Food seized as unfit for Human Consumption ?	Nil.
No. of Carcases and parts of Carcases condemned for Tuberculosis ?	Nil.
No. of Legal Proceedings, and result ?	Nil.
Department of Inspector of Nuisances	No. of Notices served ? 262. Nuisances remedied ? 733 No. of Legal Proceedings taken and result ? 3. Two Orders for work to be done within one month ; one, 20/- and costs.
Closet Accommodation of the District	No. of Privy Middens ? Nil. Pail Closets ? 3,742. Fresh Water Closets ? 460. Waste Water Closets ? 25. No. of Privy Middens converted during 1913 ? To W.C.'s, Nil ; to Pails, etc., 20. No. of Pail Closets converted to W.C.'s, 2. Does Council contribute towards the cost of conversion of either privies or pail closets, or both ? If so, how much ? No.
Smoke	No. of Observations ? Nil. No. of Legal Proceedings taken and result ? Nil. What is the time limit allowed for the emission of black smoke per hour ? Nil.
Has the Authority adopted—	"The Infectious Disease (Prevention) Act, 1890" ? Yes. "The Public Health Acts Amendment Act, 1907" ? Yes. "The Public Health Acts Amendment Act, 1890" ? Yes. "The Notification of Births Act, 1907" ? Yes.
Has a Health Visitor been appointed ?	Yes.
Notable Sanitary Improvements during 1913	Improvement as to cottages. See paragraph under House to House Inspection. Street making too.
Chief Sanitary Requirements of District	Completion of New Sewage Scheme. Continued attention to paving, streets, etc. Interior houses cleansing and repairing ; and in the near future the consideration of a destructor. Adopt water carriage when practicable.

